Touchscreen setup and calibration

This manual describes the touchscreen setup process for the touchscreens provided by Puruvesi Automation. Setup of screens provided by third parties may differ.
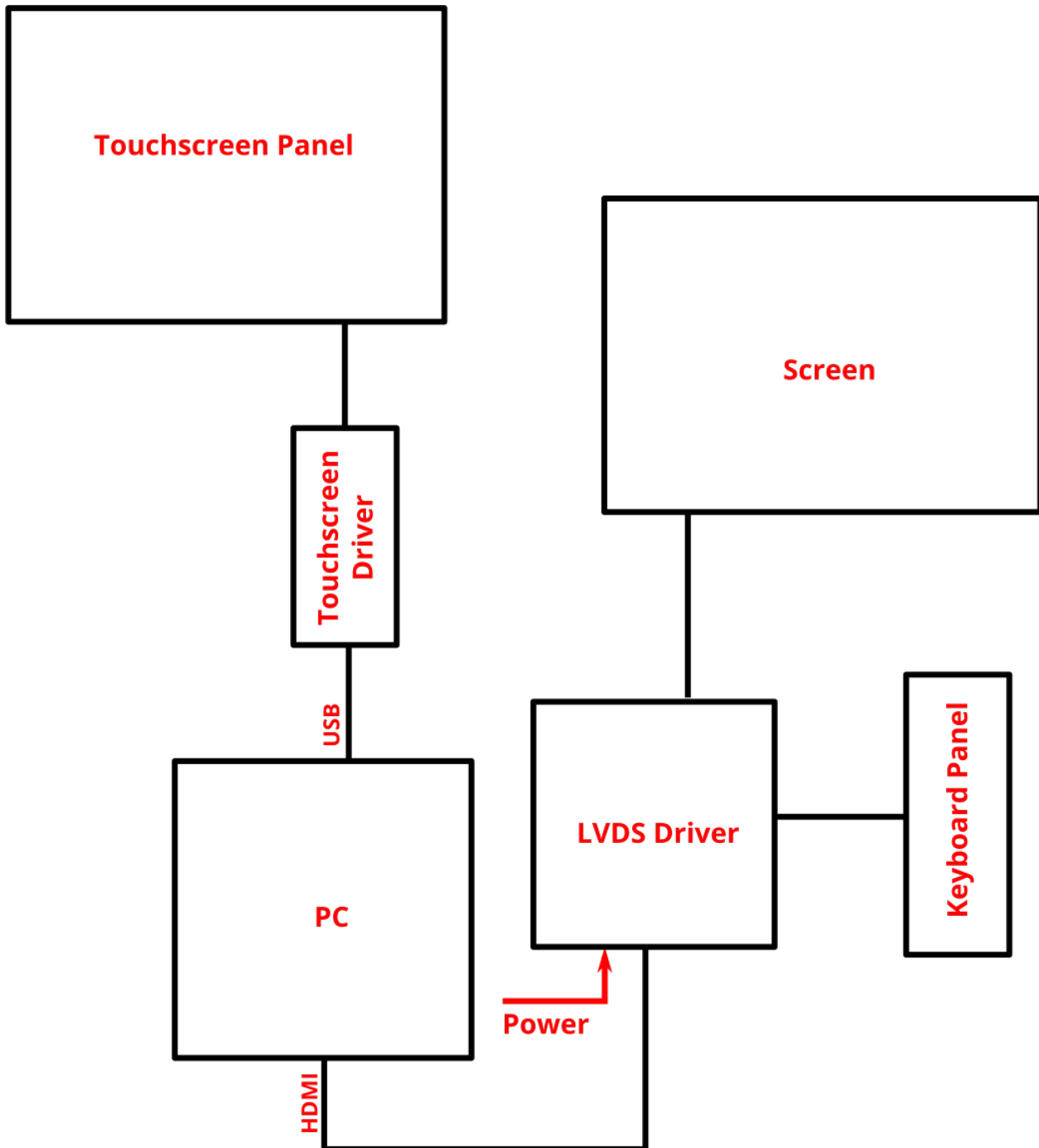
10" screen
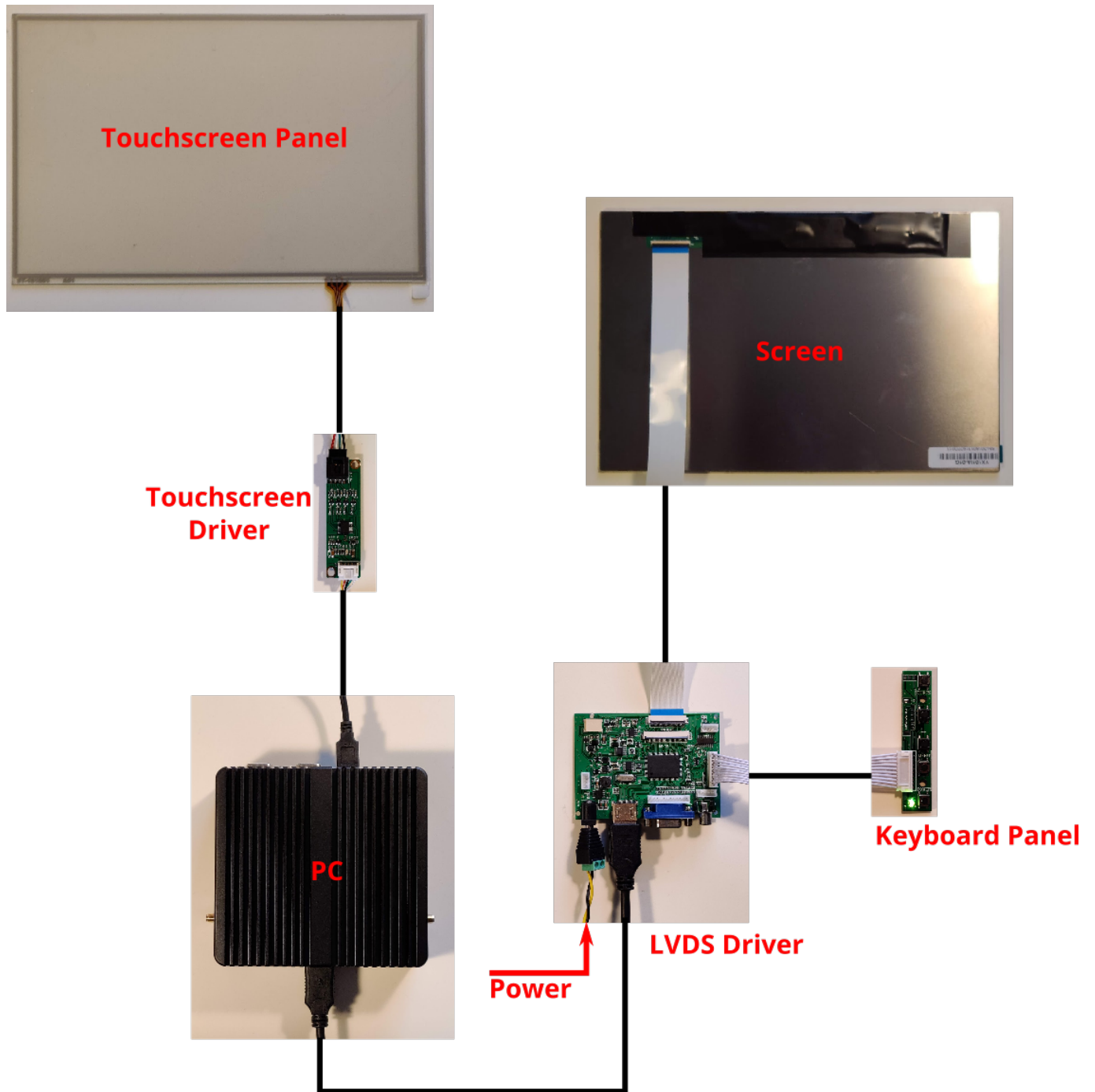
What should be in the 10 inch screen kit:

- Screen
- Touchscreen panel (separate from the screen. should be overlaid on top of the screen)
- Touchscreen driver
- LVDS driver
- Keyboard panel

Additionally, you will have the necessary cables (minus the HDMI cable and the power cable) included in the kit.

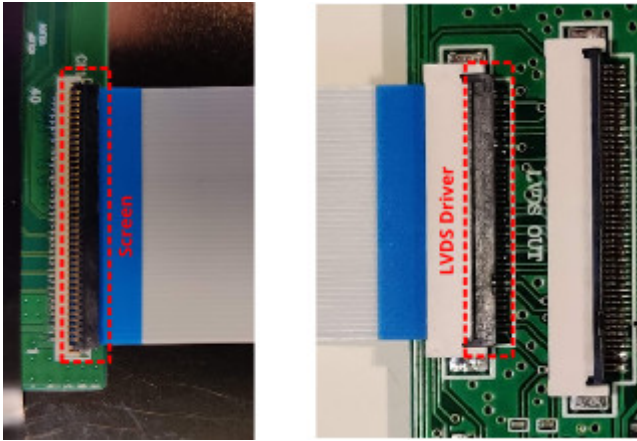The connection diagram for the 10 inch screen can be seen below:

Touchscreen Panel

Screen

Touchscreen Driver

USB

LVDS Driver

Keyboard Panel

PC

Power

HDMI

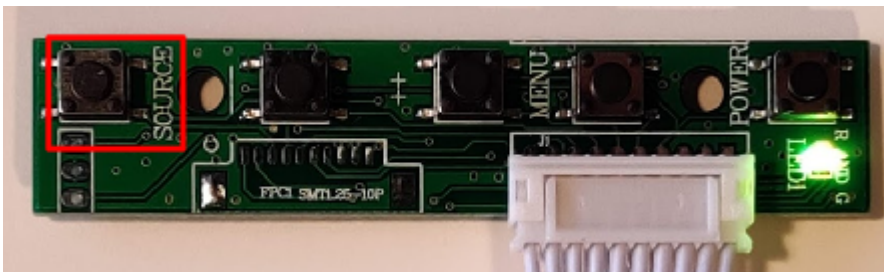Same diagram with the actual parts shown:

Assembly notes

- Make sure to properly secure the wide cable between the Screen and the LVDS driver by using the black plastic tab present on both the screen port and the LVDS port:

- The keyboard panel allows to switch the input mode to the main screen between VGA and HDMI (press the SOURCE button to switch between the two). If `No Signal` message is shown on the screen, check that the mode is selected correctly - most often VGA will be selected instead of HDMI, press the SOURCE button once to switch between the two.

Calibration

The archive for the eGaxal calibration is available here: https://www.pv-automation.com/downloads/eGTouch_v2.5.7413.L-x.zip

NOTE: The touchscreen driver must be connected to the PC via USB prior to beginning the calibration setup process.

In order to set up the calibration software and calibrate the touchscreen, do the following:

1) Check whether there is a folder named **eGTouch_v2.5.7413.L-x** (or similar) in your /home/opt/ folder (if it is there, skip step 2)

2) If the folder from Step 1 is not present, download the eGTouch archive using the link above and unzip it onto your Desktop.

3) Open Terminal

4) If there existed a folder in Step 1, type in the following:

```
cd /opt/eGTouch_v2.5.7413.L-x
```

If no folder existed in Step 1 (and the downloaded archive has been unzipped to the Desktop), type in the following to navigate to your home directory:

```
cd /
```

and then type in the following:

```
cd ~/Desktop/eGTouch_v2.5.7413.L-x
```

5) Type in:

```
sudo bash setup.sh
```

6) When asked "*Do you agree with above patent declaration?*", type in Y and press Enter.

7) When asked "*Which interface controller do you use?*", type in 2 (for USB) and press Enter.

8) If a blacklist question comes up (*Found inbuilt kernel module: usbtouchscreen. Do you want to add it into blacklist?*) , type in y and press Enter.

9) When asked "*How many controllers do you want to plug-in to system? [1-10]*", type in 1 and press Enter.

10) After the installation has completed, reboot the system

```
sudo chmod 0755 /usr/local/eGTouch64withX
```

and then reboot the system

11) After system reboot, open Terminal again and type in

```
sudo chmod 0755 /usr/local/eGTouch64withX
```
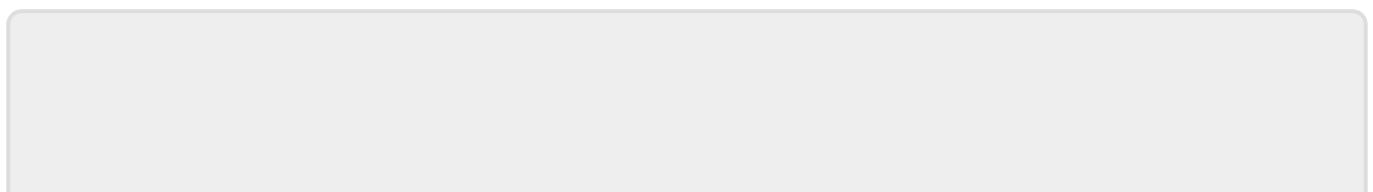
12) Type in

```
eCalib
```

to open the calibration software.

13) Type in the option number for the number of points you would like to calibrate with and press Enter

14) A calibration window will open - touch the dots on the touchscreen panel to perform the calibration

After all the dots have been pressed, the calibration process will be complete, with the calibration GUI closing and the Terminal window indicating that the calibration has been successfully finished.

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Permanent link:
http://cnc42.com/mycnc/touchscreen_setup?rev=1576159406

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